

Friday April 21 2023 7pm

License Testing 5:30pm

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APRIL 21 PROGRAM

RF EXPOSURE REGULATIONS



**By Milt Hyams, KM6ASI and
Bob Salter, AI6EE**

OUR MEETING ROOM HAS MOVED !

**We're now meeting upstairs, in room Oak View 3,
down the hall from the sanctuary. Please park in
the UPPER PARKING LOT.**



*Our in-person meeting will also be held virtually, via the Zoom video system. The meeting access ID and password will be distributed via groups.io email announcement. The meeting will also be shown on the club digital amateur television repeater, which is live streamed at: <http://w6cxatv.mdarc.org/> and also live streamed on YouTube on the **Media MDARC** channel.*



Michael Dugger, K6AAN
S. K. Gupta, W9SKG
Mark Lemmo, KN6YPY
Randall Louis, KN6NRP
Lowell Richards, KN6YWM
Julio Vargas, KN6RER

If you hear these new members on the air,
please welcome them to our club.

— Jan Kulisek, KM6NFC, Membership Chair



**ALL MEMBERS ARE INVITED TO JOIN
THE FREE CLUB E-MAIL GROUP AT:**

<https://groups.io/g/MDARC>

Mount Diablo Amateur Radio Club W6CX
P.O. Box 23222 Pleasant Hill, CA 94523
(925) 288-1730 info@mdarc.org

The Carrier is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to MDARC members, and provided space is available.

President - Ed Morales, KJ6KYT
Vice President - **vacant**
Secretary – Brian Lotter, KM6NGS
Treasurer - Gene Sylls, KG6EYE
Emergency Coordinator - Larry Loomer, KI6LNB

Directors At Large
Trevor Hall, WA6JAU Cal Vasquez, K6VT
Larry Bradley, KK6QPE Mike Warren, W6MEW

Membership Chair – Jan Kulisek, KM6NFC
mdarcmembership@mdarc.org

PACIFICON 2023

Chair: Julie Mah, WJ8MAH
Registration: Debbie Deeble, KN6DOM
Treasurer: Gene Sylls, KG6EYE
Secretary: Jeff Mah, N8MAH

COMMITTEE CHAIRS AND COORDINATORS

Annual Auction - **vacant**
Communications Trailer - Mike Warren, W6MEW
Communications Van MDARC-1 - Jim Tittle, K6SOE
Digital Media - Mike Patterson, N6JGA
Education & Training - John Primus, AF6RJ
Field Day - Larry Loomer, KI6LNB
Good & Welfare - Diana Sage, KA6TZU
Holiday Dinner - Misa Siemons, KJ6BUE
License Testing - Larry Loomer, KI6LNB
Outreach - Dick Wade, WM6G
Public Service - Larry Loomer, KI6LNB
Radio Equipment Lending - Cal Vasquez, K6VT
Refreshments - Elizabeth Styles, KG6HLV
W6LGW Callsign Trustee - Larry Loomer, KI6LNB
W6CX Repeater Trustee - Jim Tittle, K6SOE
Scholarship - Janice Fujii, KG6VTD
Technical Committee - Jim Tittle, K6SOE

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President's Message



Just A Reminder that We Live in Earthquake Country!

April 18, 2023 will be the 117th anniversary of the Great San Francisco (SF) Earthquake and Fire of 1906. The fateful event took place on that day in the morning at approximately 5:12 am. The population of SF at that time was about 400,000 (currently around 800,000). SF, my hometown, is no stranger to earthquakes or fires. In October of 1868 a quake estimated at a magnitude between 6.8 and 7.1 occurred on the Hayward fault which destroyed the town of Hayward. It also caused major damage to Petaluma and Santa Rosa. The first shock of the Great 1906 quake was estimated between 7.7 and 8.1.

I recently read a book titled “California’s Deadliest Earthquakes A History” by Abraham Hoffman. It is not a technical book but a book mostly of people’s

experiences during these events. One of these was that the great opera singer Enrico Caruso was performing in Carmen in SF and was staying at the Palace Hotel during the Great quake. He survived and swore he would never return to SF. He kept his promise. This and other stories serve as reminders of where we live and take for granted of this great place we call home.

The Earthquake Country Alliance Bay Area (ECA Bay Area) is one of three regional alliances that comprise the statewide Earthquake Country Alliance, a public-private-grassroots partnership of leading earthquake professionals, emergency managers, government officials, business and community leaders, and others.

ECA is best known for coordinating the annual Great California ShakeOut earthquake drill and developing multi-sector educational resources.

Funding for ECA activities is provided by FEMA’s Building Science Branch as part of its support for the California Governor’s Office of Emergency Services Earthquake Program.

Earthquake Country Alliance Bay Area is the new name of the Bay Area Earthquake Alliance (which was founded in 2009 by the USGS as an ECA Regional Alliance).

ECA recently sponsored several in-person and virtual workshops on the HayWired Scenario Exercise Toolkit. These are guidance and tools for desk top discussion-based exercises for businesses, community groups, non-profits, or any organization that wishes to be better prepared before, during and after a major earthquake.

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It's called HayWired since it's expected that the next major quake will occur along the Hayward fault. We know the San Andreas fault has had its fair share of quakes but according to historians, the Hayward fault hasn't had a major quake in over 150 years. Not only that, but the Hayward fault's location is one of the most densely populated, urbanized and interconnected regions in the Bay Area. It explores the potential impacts of a magnitude 7 quake centered near Oakland and its aftershocks.

For example, the table below illustrates the estimated time utilities will be disrupted and the estimated time it will take for them to be restored at a SF location after a HayWired Scenario. I encourage you and the organizations/businesses you represent to visit the ECA Bay Area website and join or sign up. Or at least find out more about it. You can never be too prepared for the next big one.



73,

Ed Morales, KJ6KYT
President

P.S. Remember to DUCK, COVER and HOLD ON!

<https://www.earthquakecountry.org/bayarea/>

Utility	50 % - Restoration	Tail Restoration
Water	3 days	100 % at 7 days
Natural Gas	9 days	90 % at 33 days
Electricity	1 day	99.5 % at 30 days
Voice/Data	5 days	100 % at 7 days



VOLUNTEERS NEEDED FOR MDARC FIELD DAY ACTIVITIES, JUNE 23 - 24 - 25, 2023



Multiple volunteers are needed to supervise the food availability at the Field Day site. We will again be at Olympic High School, 2730 Salvio Street in Concord. We are planning multiple availabilities of food service: Friday dinner, Saturday breakfast, lunch and barbecue dinner and Sunday breakfast.

We need to find a barbecue grill and a person to do the barbecue cooking.

There will be a public service antenna display. We need a ham for this display.

Visitors will be able to write their names in Morse code and then tap the code using a code key. We need someone to supervise this activity.

For Getting on the Air, a call to another ham can be made on the radio. We need two hams to supervise this activity.

For the General Class Students, and all others ready to learn about antennas and ham radio operation, Pete Harris, KE6ZIW, will be presenting a Getting-on-the-Air class at 10:00 AM.

License testing will be available at 1:00PM on Saturday. We need two more VEs to assist in this activity. A mobile (car mounted) solar power system will be demonstrated. Larry, KI6LNB, has volunteered to do this.

A live demonstration of Digital Radio Contacting will be available. Mike Warren, W6MEW, has volunteered to do this.

A demonstration of HF (high frequency) contacting will be demonstrated. We need a ham for this assignment.

A demonstration of solar charging of the trailer battery will be provided. This will be a part of the MDARC Trailer setup. We need a ham for this assignment.

An auxiliary generator demonstration for powering the trailer will be provided. Larry, KI6LNB, will be doing this.

MDARC's Digital Amateur Television Group (DATV) will be providing a demonstration of DATV in action. An DATV operator is needed for this activity.

The MDARC Trailer will be in action for all to see. Mike, W6MEW, will be demonstrating the trailer's capabilities.

(continued on following page)

The solar power trailer, which will be powering all of the 2023 Field Day activities, will be demonstrated by Charles Henry, KG6PHZ.

We need a person to be a greeter to welcome visitors to the Field Day site. We will be keeping a "Visitors Log" to count the number of visitors that we have on the site. We need a person to do this task.

We will be setting up a Public Information Table for making contact with the visitors. This could be the Visitors' Log person.

Hams will be demonstrating the operation of their own radios and antennas.

Having a Safety Officer will get more points for our club. A person is needed to perform this role.

Multiple volunteers are needed to deliver, set up and take down tables, and other ham equipment. We need a volunteer to provide publicity for our Field Day.

Those items for which there is no volunteer will not happen.

We will have a Field Day Planning Zoom meeting at 7:00 PM on Thursday, April 20, one day before the April Membership Meeting. Please attend to volunteer to help us make Field Day 2023 an important event on the MDARC Calendar.

Join Zoom Meeting

<https://us06web.zoom.us/j/82392488963?pwd=WWVjc2libnllaDE1emU3Zm5jSXR3UT09>

Larry Loomer, KI6LNB
Field Day Chair



NEW RADIO PRE-AMPLIFIER!

HERE ALL THE DX ALL THE TIME!

NO COMPUTER NEEDED!

ANTENNA NOT REQUIRED!

ONLY \$499.95 !!

AVAILABLE EXCLUSIVELY AT



PUBLIC SERVICE EVENTS 2023

MS Walk Confirmed

Sunday, April 23, 2023

Walk in Heather Farm Park, Walnut Creek

Radio Coordinator: Pete Harris KE6ZIW pharris125@comcast.net

<https://mssociety.donordrive.com/index.cfm?fuseaction=donorDrive.event&eventID=773>

Berkeley Hills Road Race Confirmed

Saturday, April 29, 2023

Bike race in the East Bay Hills

Radio Coordinator: Mark Walsh, KM6XU, mark@km6xu.com

http://berkeleybike.org/?page_id=474

Mt Diablo Trail Ride Confirmed

Saturday, May 6, 2023

Horse ride on Mt Diablo, Clayton, CA

Radio Coordinator: Larry Loomer, KI6LNB <larylloomer@yahoo.com>

<http://www.cmdtra.org> Elaine Baker

Devil Mountain Run – in Danville Confirmed

Sunday, May 7, 2023

Running Race in Danville

Radio Coordinator: George Moorhead, KG6GEM, kg6wiu1@comcast.net

<https://www.valleyspokesman.org>

Boy Scout Hike Berkeley Hills Confirmed

Saturday, May 20, 2023

Scouts Hike 20 Miles in Tilden Park

Radio Coordinator: Dave Shaw, WB6WTM, wb6wtm@arrl.net

Ohlone 50k Running Race Estimated

Sunday, May 21, 2023

Running race through four East Bay Parklands

Radio Coordinator: Larry Loomer, KI6LNB <larylloomer@yahoo.com>

<ohlone50k.com>

Lake Chabot Trail Challenge Confirmed

Sunday, June 4, 2023

Running race, 5k and ½ Marathon in Castro Valley

Radio Coordinator: Larry Loomer, KI6LNB <larylloomer@yahoo.com>

Race Director: Rachel Lunt

Skyline 50k Confirmed

Sunday, August 6, 2023

Running Race in the Oakland Hills

Race Coordinator: Larry Loomer, KI6LNB <larylloomer@yahoo.com>

Scena Performance adam.ray@scenaperformance.com

Walnut Festival Twilight Parade Not Confirmed

Saturday, September 16, 2023

Parade in downtown Walnut Creek

Radio Coordinator: Pete Harris, KE6ZIW pharris125@comcast.net

Walnut Festival Person: Tami Lagamarcino

Firetrails 50M Confirmed

Saturday, September 30, 2023

Running Race in the Oakland Hills

Race Coordinator: Larry Loomer, KI6LNB <larylloomer@yahoo.com>

Scena Performance <adam.ray@scenaperformance.com>

Mt Diablo Challenge Bike Ride Confirmed

Sunday, October 1, 2023

Bike ride up Mount Diablo, Alamo, CA

Race Coordinator: Larry Loomer, KI6LNB <larylloomer@yahoo.com>

Valley Spokesmen Bicycle Club, Raghu Venkata, event lead

<http://www.valleyspokesmen.org/>

Diablo Summit Stomp Confirmed

Saturday, October 21, 2023

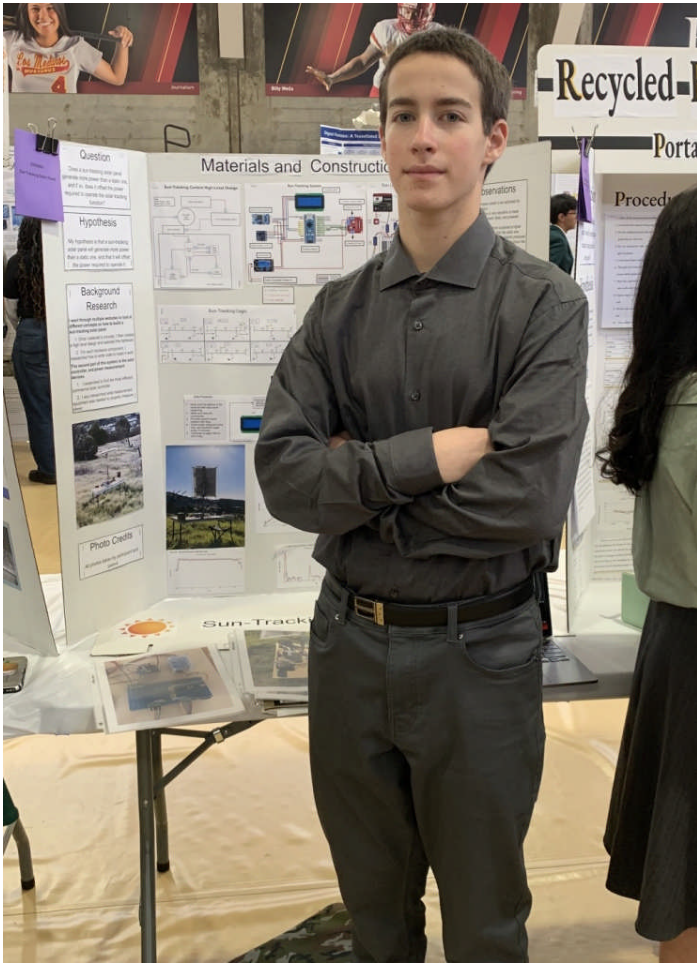
Running Race from Castle Rock Park, Walnut Creek, CA

Radio Coordinator: Larry Loomer KI6LNB <larylloomer@yahoo.com>

Brazen Racing <http://brazenracing.com/r/summitstompmain.html>



CLUB MEMBERS SERVE AS JUDGES AT CONTRA COSTA COUNTY SCIENCE & ENGINEERING FAIR



On March 10, 2023, five club members converged on the Los Medanos College gymnasium in Pittsburg to serve as judges for the annual Contra Costa County Science & Engineering Fair. There were 127 students showing off 110 projects (some were team projects) in the categories of: Behavioral, Biological, Engineering, Environmental, Math/Computer Science, and Physical Science.

Eighth grader Jonas Desyatnik (left) won the \$200 prize funded by MDARC for his project, which compared the power generation of sun-tracking solar panels to those that were stationary, and to determine if the power generation would offset the load required to operate the controlling devices. His project also won first place in the 8th Grade Engineering category and thus qualified to present his project at the California Science & Engineering Fair. He also won a U.S. Air Force award for excellence in engineering. Jonas does not have an amateur radio license yet, but his father is Yuri Desyatnik, KI6DUA.



Club members Larry Loomer, KI6LNB, Marilyn Warren, Mike Warren, W6MEW, Larry Bradley, KK6QPE and Terry Buxton, KK6KGX (above), served as volunteer judges. 110 projects were entered in the fair.

(Text and photos by Janice Fujii, KG6VTD)

MDARC-1 VISITS LINCOLN HIGH SCHOOL WORLD OF S.T.E.A.M. EXPO IN STOCKTON



On Saturday March 25, 2023, our club joined forces with the Stockton-Delta Amateur Radio Club, W6SF, to showcase amateur radio and amateur television at the Lincoln Unified School District's "World of S.T.E.A.M." Expo.

Jim Tittle, K6SOE, staffs the digital amateur television display featuring our club's repeater signal (left) inside the gymnasium. Above: K6SOE demonstrates our club's MDARC-1 communications van to two W6SF club members in the parking lot. (Photos by Larry Bradley, KK6QPE)

PACIFICON 2023 is on!! October 20-22, 2023

The PACIFICON team has been hard at work already, securing the San Ramon Marriott Hotel, planning and preparing for PACIFICON 2023.

What makes PACIFICON so great is the involvement of communities and entities that come together, share ideas, have discussions, and are involved in this amazing convention. We wish and hope we can continue this endeavor, but we need your help. The number of people volunteering is less than what we need.

It is only through the efforts of individuals who donate their time and energy to this convention that makes PACIFICON so special.

We hold 1 meeting a month (the 2nd Wednesday of every month) both in person and by zoom. (long distance can no longer keep us apart). It usually lasts about 2 hours.

We are in urgent need of a Forums Coordinator. The Forums Coordinator makes contact with various persons who speak or teach through the convention and then coordinating with the team, plans the various times and placements of speakers. We have a historical list of good previous speakers, some of whom very likely would be willing to do their presentations, or modified versions, again if contacted about it. You don't need to be a licensed amateur or a member of MDARC to participate as a volunteer.

If you are tired of the same speakers or want different information given during this convention then it is time to get involved. Sitting on the sidelines and complaining about something doesn't make change. You need to get involved!!!

Afraid?? Never done anything like it?? No time?? I can tell you that the PACIFICON team is one of the best teams to volunteer for. The knowledge that has accumulated through the years is mind blowing and every person on the team is willing to help you out in any way possible. There is also written documentation created by the previous chair, to follow and guide you through the process, and changes that you can make to help make PACIFICON fabulous. Don't be afraid!!!

Want to check things out first? I invite you to join our meetings by zoom or in person. Just send me an email and I will send you a link to join our next meeting or give you an address for the meeting if you wish to come in person.

Also, this year celebrates the 100th anniversary of the first meeting of the Royal Order of the Wouff Hong which is traditionally put on at ARRL Division / National conventions. Some of our six 6 actors and other assistant staff for this have been doing it since MDARC took over PACIFICON in 1992 with pre-recorded audio for this 45 minute meeting. For the 100th meeting we would like to do this with lines being memorized instead of using pre-recorded audio. This year, we would also like to start building a new team to take this over for future PACIFICON conventions. We need to come up with replacement costumes as the other ones that have been used since 1992. If we start now, it should be easy to memorize the parts and come up with costumes and the few simple props that are needed. You must be a licensed ham to be an actor. We will hold Zoom meetings to work on lines, and will have 1 or 2 in-person rehearsals in September and October (most likely in Lafayette). Please contact Lauren Styles, WA6CIE, at WA6CIE.HAM@GMAIL.COM if you can help with this.

So in closing.... If you want PACIFICON to continue and thrive, then get involved, because PACIFICON is not sustainable without volunteers.

Thank you, 73,

Julie Mah, WJ8MAH, 2023 PACIFICON Chair

ANNUAL ARMED FORCES DAY CROSSBAND TEST 13 May 2023

The Department of Defense will host this year's Armed Forces Day (AFD) Crossband Test on May 13, 2023. This annual event is open to all licensed amateur radio operators and will not impact any public or private communications. For more than 50 years, military and amateur stations have taken part in this event, which is an interoperability exercise between amateur radio and government radio stations.

The AFD Crossband Test is a unique opportunity to test two-way communications between military communicators and radio stations in the Amateur Radio Service (ARS), as authorized in 47 CFR 97.111. These tests provide opportunities and challenges for radio operators to demonstrate individual technical skills in a tightly controlled exercise scenario that does not impact any public or private communications.

Military stations will transmit on selected military frequencies and will announce the specific ARS frequencies monitored. All times are Greenwich Mean Time (Z), and all frequencies are Upper Side Band (USB) unless otherwise noted. The frequencies used for the test will not impact any public or private communications and will not stray outside the confines of the exercise.

The following stations will be making two-way radiotelephone contacts with stations in the ARS between the time periods listed on the frequencies listed in Kilohertz below.

AAZ / FT HUACHUCA, AZ

1500Z - 2359Z 14,579.0 kHz USB 18,211.0 kHz USB

AAC / BARROW ARMY RESERVE CENTER, KY (USB + RTTY)

1100Z - 2259Z 4,011.1 kHz USB 5,346.5 kHz USB 6,968.5 kHz USB 13,963.5 kHz USB 18,254 kHz USB

AAN / U.S. NORTHERN COMMAND, CO

1400Z - 2000Z 6,970.5 kHz USB 14,550.5 kHz USB

ADB / CAMP FOSTER, OKINAWA

1500Z - 2359Z 14,487.0 kHz USB 20,994.0 kHz USB

AGA4RO / ROBINS AFB, WARNER ROBINS, GA

1400Z - 2000Z 5,346.5 kHz USB 6,897.5 kHz USB 13,538.5 kHz USB

AFM4NPD / NAVAL SUPPORT ACTIVITY MID-SOUTH, MILLINGTON, TN

1200Z - 2200Z 4,575.0 kHz USB 7,540.0 kHz USB 15,807.0 kHz USB

AAM3D / DISA CYBERSPACE OPERATIONS DIRECTORATE, FT MEADE, MD

1300Z-2000Z 5,403.5 kHz USB 7,421.0 kHz USB 13,509.0 kHz USB 18,272.5 kHz USB 20,920.0 kHz USB

WAR / PENTAGON WASHINGTON, DC (USB + CW + RTTY)

1200Z - 2359Z 4,018.0 kHz USB 5,357.0 kHz USB 7,357.0 kHz USB 14,383.5 kHz USB 20,997.0 kHz USB

AGA2SY / HANCOCK FIELD, NY

1200Z - 2359Z 4,540.0 kHz USB 7,473.5 kHz USB 15,807.0 kHz USB 20,740.0 kHz USB 27,736.0 kHz USB

AGA5SC / SCOTT AFB, IL

1600Z - 2300Z 7,305.0 kHz USB 7,915.0 kHz USB 14,832.0 kHz USB 27,736.0 kHz USB

(continued on following page)

AGA5TR / TRAVIS AFB, CA

1600Z - 2359Z 7,329.0 kHz USB 14,411.0 kHz USB 20,740.0 USB

NBKJ / USS YORKTOWN PATRIOTS POINT, SC

1300Z - 2200Z 4,027.0 kHz USB 7,360.0 kHz USB 14,438.5 kHz USB

NEPM / USS IOWA BB 61 LOS ANGELES, CA (USB + CW)

1400Z - 2359Z 7,360.0 kHz USB 13,506.5 kHz USB 20,518.5 kHz USB

NIIW / USS MIDWAY CV-41 SAN DIEGO, CA (USB + CW + RTTY)0001Z – 0600Z and 1401Z - 2359Z 4,040.0 kHz USB 5,403.5 kHz USB 7,335.0 kHz USB
14,476.0 kHz USB 18,173.0 kHz USB**NWVC / LST-325 EVANSVILLE, IN (USB + CW)**

1200Z - 0300Z 3,325.0 kHz USB 6,913.0 kHz USB 9,988.5 kHz USB 13,974.0 kHz USB

NSS / US NAVAL ACADEMY ANNAPOLIS, MD (USB + CW)

1300Z - 0200Z 4,038.5 kHz USB 5,330.5 kHz USB 7,533.5 kHz USB 9,947.0 kHz USB 14,487.0 kHz USB

NAF / NEWPORT NAVAL RADIO STATION MUSEUM NEWPORT, RI (USB + CW)

1400Z - 2300Z 5,330.5 kHz USB 7,498.5 kHz USB 14,463.5 kHz USB

NMC1/ US COAST GUARD BASE ALAMEDA, CA

1700Z - 2359Z 7,351.5 kHz USB 14,459.5 kHz USB

SCHOOLHOUSE/ SAVANNAH CYBER TRAINING CENTER SAVANNAH, GA

1000Z - 2200Z 4,013.5 kHz USB 7,431.5 kHz USB 13,528.5 kHz USB 18,254.0 kHz USB 20,973.5 kHz USB

AGA0WJ / NAS WHIDBEY ISLAND, WA

1600Z – 2300Z 4,000 kHz USB 7,431.5 kHz USB 13,528.5 kHz USB

An AFD message will be transmitted utilizing the Military Standard (MIL-STD) Serial PSK waveform (M110) followed by MIL-STD Wide Shift FSK (850 Hz RTTY) as described in MIL-STD 188-110A/B. Technical information regarding these waveforms is provided at:

<https://drive.google.com/drive/folders/1pYDj7kQbm-QAyY4RPtx0dOXKohjaEjq9?usp=sharing>

The AFD Sec Def Message will also be sent in Continuous Wave (CW) mode and Radio Teletype (RTTY) at 1400Z and 2000Z on the frequency designated below.

AAZ:	MILSTD110	14,579.0 kHz
AAC:	MILSTD110/RTTY	13,963.5 kHz
ADB:	MILSTD110	20,994.0 kHz
WAR:	MILSTD110/RTTY/CW	14,383.5 kHz
AAM3D:	MILSTD110	13,509.0 kHz
NEPM:	RTTY	13,506.5 kHz
NWVC:	CW	13,974.0 kHz
NIIW:	MILSTD110/RTTY/CW	14,476.0 kHz
AGA0WJ	MILSTD110/RTTY	13,528.5 kHz
SCHOOLHOUSE	MILSTD110	18,254.0 kHz

For those who wish to document their contacts with a QSL card, go to:

<https://www.usarmymars.org/events> and complete the request form.

18 APRIL

WORLD AMATEUR RADIO DAY

اليوم العالمي لراديو الهواة

Día Mundial del Radioaficionado

Всемирный День радиолюбителя

世界业余无线电日

Journée mondiale de la radio amateur

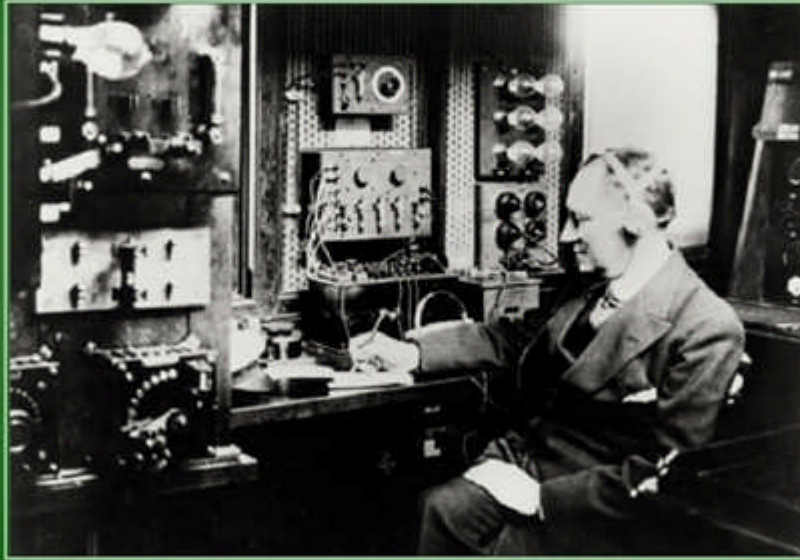
Celebrating Amateur Radio's Contribution to Society



WWW.IARU.ORG/WORLD-AMATEUR-RADIO-DAY



International Marconi Day



International Marconi Day (IMD) celebrates the huge role Guglielmo Marconi played in the invention of radio.

IMD is a 24 hour amateur radio event that is held annually to celebrate the birth of Marconi on 25 April 1874. The event is usually held on the Saturday closest to Marconi's birthday and in 2023 it will be held from 0001 to 2359 GMT on **Saturday April 22.**

The purpose of the day is for amateur radio enthusiasts from around the world to make contact with historic Marconi sites using communication techniques similar to those used by Marconi himself. These sites are where Marconi either operated from, set up experimental stations or resided.

There is a Network Radio Channel on Zello for IMD. If you have Zello on your mobile device or on your computer just search **GB4IMD** in channels or you can scan the image below.



Please visit the International Marconi Day Facebook page



54th ANNIVERSARY CAMPOUT PARTY 2023

June 2-4

PRESENTED BY THE



Mount Diablo Amateur Radio Club

"A 2023 Camping Adventure"
(June 2nd, 3rd, & 4th)

Introduction

The campout usually take place starting on the first Friday of June at the Sugar Pine Dam Recreation Area in the Forbes Creek section at the Rocky Ridge group site. It is one of the most beautiful spots in Placer County. This will be a joint venture between the Club and a another group of radio amateurs who have meeting for this annual event for over 40 years. We are limited to 50 people at this site so get your reservations in early.

What The Campsite Provides & Communication

At approximately 3,000 feet above sea level, the campground has water and restroom facilities, no hookups, but nice spaces for trailers, tents and motor homes. There are three large barbecue pits available at our site as well as a large recessed pit for a grand campfire. There are plenty of trees as well as open space for stringing a G5RV and a double extended zepp for your HF station if it is your desire to bring one. However there are plans for at least one active HF station from WA6UHA (weather permitting). Tentatively our stations will be active on 40 and 75 meters, during the day on the Noon Time Net frequency of 7268.5 khz (Friday afternoon and all day Saturday) and at night (Friday & Saturday) on 3952 khz (the [Western Public Service Net](#) frequency). It's time to pack up and enjoy the great outdoors and warm up for Field Day coming three weeks later. VHF and UHF paths for both Bay Area and Sacramento television and FM stations are quite good even with simple antennas. Obviously, working 2 meters and 440 into Sacramento and the Bay Area repeaters is not difficult especially during the early morning hours when path conditions are ideal. Call-in will be on the Mount Diablo W6CX 2 meter system 147.06+600 PL 100. Alternate system: 146.745 -600 W6SAR Foresthill PL 156.7. The Sugar Pine Lake is just a 1/2 mile from the campsite. A hiking trail leads to the water and connects to another trail that follows the perimeter of the lake. The main swimming area is located on the opposite side of the lake and is accessible by hiking or by a 10 minute drive.

A Chronological Look At The Planned Activities

Normally if the campsite is available, starting with the first Friday during the month of June every year.

Friday

Between 12 noon and 1 PM, the forest ranger will arrive to unlock the gate for access to our site. The gate will remain open through out our stay. Also during this time and throughout the afternoon and the early evening the 145.43 repeater (PL 162.2hz), as well as the 146.745 -600 W6SAR Foresthill PL 156.7 will be monitored. If you are a distance away from the campsite, the Mt. Diablo W6CX repeater (147.06 +600 100hz PL) will be available. When you arrive, park at any of the available spaces. There are plenty.

That evening, you are on your own for dinner. Use your Weber or the barbecue pits provided at the site.

A campfire and star party with telescopes will take place after dark.

Saturday

In the morning, you are on your own for breakfast after which, if you desire, join us for a hike to and around the lake. Weather pending, the view will be picture postcard as we make our way around. We will pass the swimming area and cross the dam as we make our way back to Rocky Ridge. The hike should take approximately 2 hours.

After arriving back at the campsite, you are on your own for lunch if you desire but most of us would probably settle for a tall cold one. Later on you can scrounge around for wood for the campfire that night. Around 4:30 the full socializing begins and the bar is open. Bring out the appetizers and munches which is part of the pot luck. Also during this time, the host supplied charcoal will be prepared and the barbecue pits will be lit. However, before dinner as an idea conceived by Fred Townsend AE6QL, we will have a champagne cork popping contest. To participate in this event, bring your own champagne ...**AND NO BOTTLES WITH SCREW-ON CAPS...CORK ONLY.**

As for dinner that follows, the hot coals will be provided for cooking your choice of meat. Please bring out a side dish, salad, rolls for dinner and dessert to share,

After dinner, the camp fire will be started so bring your own marshmallows. The sticks will be provided by the campsite. Enjoy the fire as we sing, chat, or whatever you would like to do at this time. Plus we will have a real space odyssey star party with a few astronomical telescopes set up.

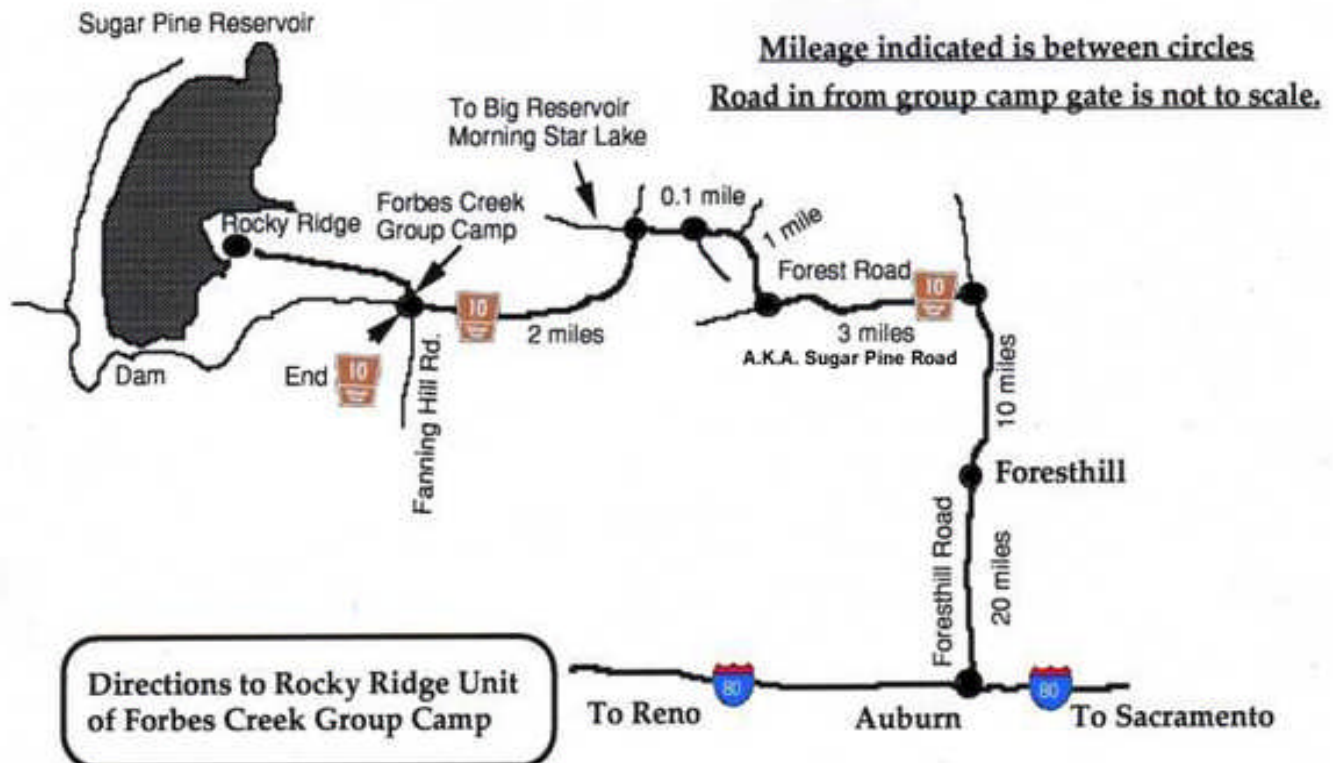
Sunday

At approximately 8 am, preparation will be underway for the host provided barbecued pancakes. Two kinds will be provided, plain and Oregon Blueberry. After many years of research we were able to come up with a process that prevents the pancake batter from seeping through the grill and on to the charcoal. Supply your own beverages and sides and share if you like.

In the late morning, it's cleanup time and we say our good-byes until next year.

Looks Great...Now How Do We Get There??

From San Francisco, drive east on Interstate 80 through Auburn and exit at Foresthill. Head east on Foresthill Road crossing the mile long panoramic American River Bridge. Continue heading east for about 20 miles and you will reach the town of Foresthill. After passing through town continue east for another 10 miles and turn left at Sugar Pine Dam Road. There should be sign just before you reach the junction. Once you are on Sugar Pine Dam Road (Route 10), follow the road carefully, there are a few turnoffs that can possibly throw you off course. If you have any questions while on Foresthill or Sugar Pine Dam road, you should be in simplex range. Monitor 146.49. The 145.43 (PL 162.2) Auburn repeater should also be available and it will be the primary talk-in to get you to the site. In any case, stay on the blacktop. Eventually you approach a junction with the main road going slightly to the left and a road going slightly to the right with a gate which should be open for us. This is also the junction where route 10 ends as indicated by a sign even though the road continues. As you go past the gate, there is a sign posted there marking the reserved group campsites. Follow the signs for the Rocky Ridge site which will be reserved for us. The total drive time from San Francisco to the campground should be approximately 3 hours if you avoid the Bay Area and Sacramento rush hours.



Valley of the Moon Amateur Radio Club

Presents

HAMFEST 2023

Saturday, April 22nd,
8:00 AM to 12:00 Noon

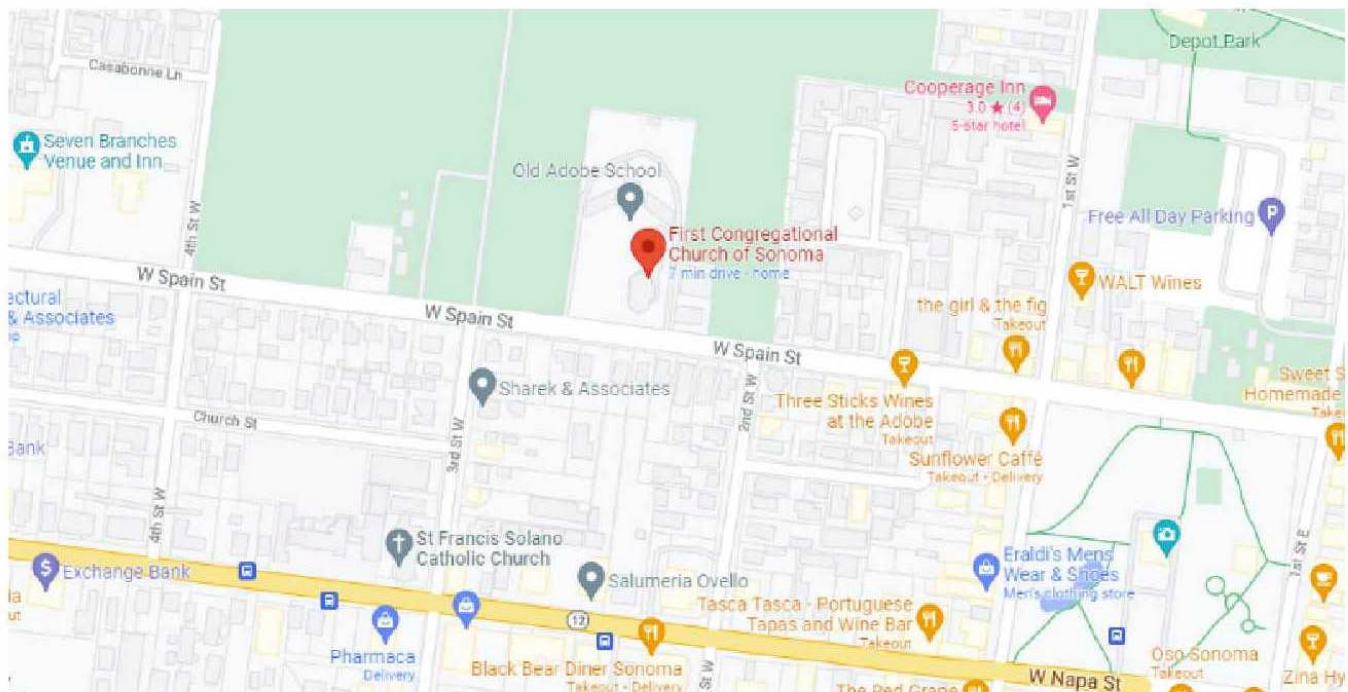
Featuring:

- Swap Meet (outdoor spaces)
- Breakfast (pancakes, sausage and eggs)
- VE Testing Session (advance registration required)
- Station Demos
- Fox Hunt
- And more!



First Congregational Church of Sonoma
252 W Spain St, Sonoma
Talk in on 145.350 MHz (88.5 PL)
For info: valleyofthemoonarc@gmail.com

Admission: FREE
Breakfast: \$10.00
Swap spaces: \$10.00
<http://www.vomarc.org>





SATURDAY APRIL 22



WILDFIRE PREVENTION AND SAFETY FAIR

28 ORINDA WAY



Orinda Community Park
9am – 3pm

Answers and Knowledge for Adults
Games and Activities for Families

MDARC General Meeting Minutes February 17, 2023

Held as hybrid Zoom and in-person meeting.

1. Call to Order: The meeting was called to order at 7:00 pm by the MDARC President Ed Morales, KJ6KYT.

a. Welcome to all: The president welcomed all attendees and indicated the positions of the emergency exits.

b. Pledge of Allegiance: This was made by attendees.

c. Acknowledge new members: The president acknowledged new members.

d. Acknowledge visitors: The president acknowledged visitors.

2. Approval of Minutes from the Last Meeting: The January 2023 minutes were approved.

3. Officer Reports:

a. The President: Ed, KJ6KYT reported that we are still looking for an auction chair, and that he had been net control for Dave Piersall's usual nets on Thursday night. He noted that there was more activity than usual and encouraged hams to participate since they may need to one day.

b. The Vice President: Vacant.

c. The Secretary: Brian KM6NGS had no report.

d. The Treasurer: Gene KG6EYE presented the financials for January 2023 as follows MDARC; Income \$9,162, Expenses \$3,830, Net Income \$5,332. PACIFICON; Income \$0, Expenses \$47.50, Monthly Total -\$47.50. Account Balances; MDARC Checking \$33,342, MDARC Savings \$28,397, Equipment Self-Insurance Fund \$59,627, Pacificon Account \$17,291, Total Account Balances \$138,657. There were no questions for Gene.

e. The Emergency Coordinator: Larry KI6LNB was not present at this time.

f. Directors at Large: Mike W6MEW, Trevor WA6JAU and Larry KK6QPE had nothing to report. Cal K6VT was not present.

4. Committee Reports – Standing:

The following reports were the only ones presented at this meeting

a. License Testing: Larry KI6LNB reported that, at tonight's testing, 3 Technician, 3 General and 2 Amateur Extra candidates had passed their exams.

b. Membership: Jan KM6NFC reported that there are 204 paying members and 247 including family members, 97 who paid for 2022 but haven't paid for 2023 yet, and 15 new members.

c. Public Service: Pete Harris KE6ZIW announced that he is coordinating a public service event which is the Walkathon at Heather Farm on April 23rd. Larry Loomer KI6LNB reported that there are 10 or 12 confirmed public service events. They are all published in the Carrier and on the website.

d. Rocky Ridge Repeater (Technical): Trevor Hall WA6JAU stated that he is sure that everybody knows that there have been problems on Mount Diablo South Peak. He had gone up to rectify the problem and now all systems are working, except that the transmit antenna has been coupled to the receiver resulting in slightly poorer performance. In response to a question from Larry KK6QPE he said that, since it would be very expensive, they won't do any further repairs until they know if we are moving to North Peak or not. Mike W6MEW reported that at his QTH in Pittsburg, his received signal has dropped from 40 over to S9.

5. Unfinished Business: There was no unfinished business.

6. New Business: There was no new business.

7. Adjourn Business meeting: The business portion of the meeting was adjourned at 7:25 pm.

At this point, Ed KJ6KYT introduced John Portune W6NBC who made a presentation on Ferrite Toroid Baluns

Respectfully submitted by

Brian Lotter, KM6NGS, Secretary, on March 12, 2023.



Upgrade your amateur radio license. Register now for MDARC 2023 General or Extra license courses.

General License Course-2023

Each Tuesday, March 28 - May 23, 2023 (9 sessions)

7:00-9:00 PM

Held via Zoom and In-Person at:
Clayton Valley Presbyterian Church
1578 Kirker Pass Road
Clayton, Ca 94517

*** General Class Get-On-The-Air (GOTA)**

Saturday, June 24, 10:00 AM-12:00 PM

at MDARC's Field Day site.

In-Person Only

Amateur Extra License Course-2023

Each Tuesday, June 27 - September 5, 2023 (10 sessions)

7:00-9:00 PM

Held via Zoom and In-Person at:
Clayton Valley Presbyterian Church
1578 Kirker Pass Road
Clayton, Ca 94517

Note: No class on July 4; Independence Day.

Please go to <https://www.mdarc.org/education-and-testing/class-details> for complete details and to register for one or both license courses.

SATURDAY, MAY 13, 2023 - BENICIA, CA



AMATEUR RADIO LICENSE CLASS

Study Session followed by Exam



When: Saturday, May 13, 2023

8:30 AM - 5:00 PM

Where: Benicia Senior Center

1201 East 2nd Street, Benicia

What: Technician Class (beginner's level)

General Class Upgrade

(for those already licensed as a Tech)

Fee: \$35.00 (Includes exam fee) (FCC Fee not included)

Register: beniciaarc.com/hamclass

Questions: HamRadioClass@BeniciaARC.com
or 707-742-3227 Voicemail or Text



Class size is limited and always fills up
Register and Pre-pay online for a guaranteed seat
No prep or prior study required

EXAM TOOLS by SignalStuff

Prospective Hams should plan on attending a free Get-On-The-Air Class after passing their test, to become familiar with Amateur Radio operations

Reserve Your Space - Become a Ham in One Day!



Can't make the upcoming class?
Check our website for future sessions.



Element 4 (Extra class)
You need only pay the test fee of \$14. We do not provide study materials for Element 4.



Character illustration courtesy ICOM USA

SAN RAMON VALLEY FIRE DISTRICT RECRUITING FOR VOLUNTEER COMMUNICATIONS RESERVES

Apply at <https://www.governmentjobs.com/careers/srvfire?> Please direct any questions to Chris Quirk, W6CJQ, 925-202-1198.



We have 2 meetings a month, 1 on a Saturday morning and the other on a Tuesday evening. Meeting are 3 to 4 hours long and involve maintaining the vehicles, reviewing activities and training. The meetings are not mandatory but regular attendance is needed to keep your skill levels up and stay familiar with vehicle operations. Public Service Events usually run 6 to 12 hours and occur once or twice a month depending on time of year. Public Service events allow us to stay sharp and insure the equipment used is

operating correctly. For individuals that are interested deployment to incidents such as large wildfires, law enforcement assistance, training with other agencies or formal training in ICS, RADO, COM L, COM T, Fire Apparatus Driver/Operator 1A. Courses can be 1 day or a week at a time. Application deadline is May 1, 2023

ABOUT THE POSITION

Volunteer Communication Reserves are an important part of the District's operations. Their dedication and commitment to the District contribute the overall success and safety of the organization and staff by enhancing the communications and support functions in both times of emergency and on a routine basis. Volunteer Communication Reserves do not perform fire-fighting functions, or other functions that are normally performed by career District personnel.

Please note: Volunteer Communication Reserves must maintain a residence within the District, or within 30 minutes of District boundaries to be eligible.

The duties consist of, but are not limited to the following:

- Fire support duties as assigned, including rehabilitation duties during fire incidents
- Provide support during mutual aid response, including track resources.
- Assist with logistical Situation/Resource Status support
- Distribute and recover radio equipment (Cache radios and other equipment)
- Operate radio equipment at incidents
- Provide telephone and fax support at incidents and during emergencies
- Assist with the Mobile Command Post and Breathing Support Unit, including setup, operation, shutdown and rehabilitation (upon completion of training)
- Drive Communications Support and Breathing Support Units, including setup, startup and shutdown/rehabilitation (upon completion of the appropriate license, certification, and training requirements)
- Responsible for the inspection and care, including reporting maintenance issues through the appropriate channels, of the Mobile Communication and Breathing Support Units
- Assist in Community Events
- Other duties as assigned

APRIL 9-15, 2023



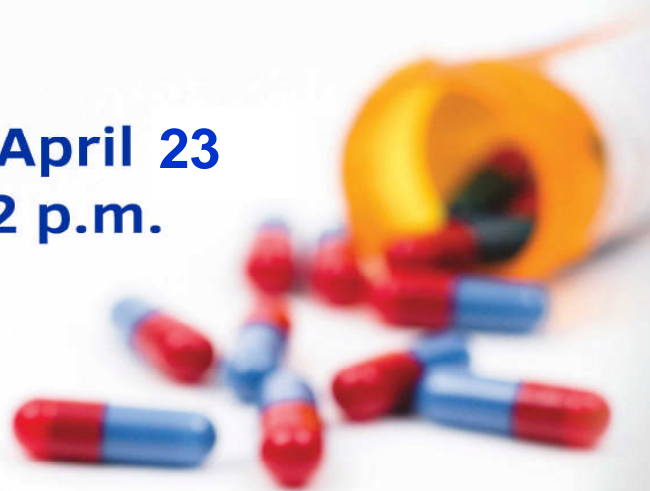
**THANK YOU
DISPATCHERS AND FIRST RESPONDERS**

**NATIONAL PUBLIC SAFETY
TELECOMMUNICATORS WEEK**



**Saturday, April 23
10 a.m. – 2 p.m.**

DEATakeBack.com



Safely Dispose of your unneeded medications at the following police departments:

Antioch, Brentwood, Danville, Discovery Bay, Fremont, Hayward, Kensington, Lafayette, Orinda, Union City; **Contra Costa County Sheriff's Offices:** 1980 Muir Rd, Martinez; 150 Alamo Plaza #C, Alamo; 5555 Giant Hwy, Richmond; **Can't make it to any of these locations that day? No problem, go to the above web page to find a regularly-open safe disposal site near you.**

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Family owned and operated since 1971



FTDX101MP | 200W HF/50MHz Transceiver

- Hybrid SDR Configuration • Unparalleled 70 dB Max. Attenuation VC-Tune • New Generation Scope Display 3DSS • ABI (Active Band Indicator) & MPVD (Multi-Purpose VFO Outer Dial) • PC Remote Control Software to Expand the Operating Range • Includes External Power With Matching Front Speaker



FTDX10 | HF/50MHz 100 W SDR Transceiver

- Narrow Band and Direct Sampling SDR • Down Conversion, 9MHz IF Roofing Filters Produce Excellent Shape Factor • 5" Full-Color Touch Panel w/3D Spectrum Stream • High Speed Auto Antenna Tuner • Microphone Amplifier w/3-Stage Parametric Equalizer • Remote Operation w/optional LAN Unit (SCU-LAN10)



FT-991A | HF/VHF/UHF All Mode Transceiver

- Real-time Spectrum Scope with Automatic Scope Control • Multi-color waterfall display • State of the art 32-bit Digital Signal Processing System • 3KHz Roofing Filter for enhanced performance • 3.5 Inch Full Color TFT USB Capable • Internal Automatic Antenna Tuner • High Accuracy TCXO



FTDX101D | HF + 6M Transceiver

- Narrow Band SDR & Direct Sampling SDR • Crystal Roofing Filters Phenomenal Multi-Signal Receiving Characteristics • Unparalleled - 70dB Maximum Attenuation VC-Tune • 15 Separate (HAM 10 + GEN 5) Powerful Band Pass Filters • New Generation Scope Displays 3-Dimensional Spectrum Stream



FT-710 Aess | HF/50MHz 100W SDR Transceiver

- Unmatched SDR Receiving Performance • Band Pass Filters Dedicated for the Amateur Bands • High Res 4.3-Inch TFT Color Touch Display • AESS: Acoustic Enhanced Speaker System with SP-40 For High-Fidelity Audio • Built-in High Speed Auto Antenna Tuner



FT-891 | HF+50 MHz All Mode Mobile Transceiver

- Stable 100 Watt Output • 32-Bit IF DSP • Large Dot Matrix LCD Display with Quick Spectrum Scope • USB Port Allows Connection to a PC with a Single Cable • CAT Control, PTT/RTTY Control



FTM-300DR | C4FM/FM 144/430MHz Dual Band

- 50W Output Power • Real Dual Band Operation • Full Color TFT Display • Band Scope • Built-in Bluetooth • WIRESS-X Portable Digital Mode/Fixed Mode with HRI-200



FT-2980R | Heavy-Duty 80W 2M FM Transceiver

- 80 watts of RF power • Large 6 digit backlit LCD display for excellent visibility • 200 memory channels for serious users



FTM-200DR | C4FM/FM 144/430MHz Dual Band

- 1200/9600bps APRS® Data Communications • 2" High-Res Full-Color TFT Display • High-Speed Band Scope • Advanced C4FM Digital Mode • Voice Recording Function for TX/RX



FTM-3100R | Rugged 65W 2M FM Transceiver

- Rugged & Compact • Crystal Clear Front Panel Audio • 220 Memory Channels • Weather Broadcast Reception • Severe Weather Alert Feature

FT-70DR C4FM/FM 144/430MHz Xcvt

- System Fusion Compatible • Large Front Speaker delivers 700 mW of Loud Audio Output • Automatic Mode Select detects C4FM or Fm Analog and Switches Accordingly • Huge 1,105 Channel Memory Capacity • External DC Jack for DC Supply and Battery Charging



FT-5DR C4FM/FM 144/430 MHz Dual Band

- High-Res Full-Color Touch Screen TFT LCD Display • Easy Hands-Free Operation w/Built-In Bluetooth® Unit • Built-In High Precision GPS Antenna • 1200/9600bps APRS Data Communications • Supports Simultaneous C4FM Digital • Micro SD Card Slot



FT-65R | 144/430 MHz Transceiver

- Compact Commercial Grade Rugged Design • Large Front Speaker Delivers 1W of Powerful Clear Audio • 5 Watts of Reliable RF Power Within a compact Body • 3.5-Hour Rapid Charger Included • Large White LED Flashlight, Alarm and Quick Home Channel Access



FTM-6000R | 50W VHF/UHF Mobile Transceiver

- All New User Operating Interface-E20-III (Easy to Operate-III) • Robust Speaker Delivers 3W of Clear, Crisp Receive Audio • Detachable Front Panel Can Be Mounted in Multiple Positions • Supports Optional Bluetooth® Wireless Operation Using the SSM-BT10 or a Commercially Available Bluetooth® Headset



- RETAIL LOCATIONS – Store hours 10:00AM - 5:30PM - Closed Sunday
- PHONE – Toll-free phone hours 9:30AM - 5:30PM
- ONLINE – WWW.HAMRADIO.COM
- FAX – All store locations
- MAIL – All store locations

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The radio

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(877) 892-1745

PORTLAND, OR
(800) 765-4267

DENVER, CO
(800) 444-9476

PHOENIX, AZ
(800) 559-7388

PLANO, TX
(877) 455-8750

MILWAUKEE, WI
(800) 558-0411

NEW CASTLE, DE
(800) 644-4476

WOODBIDGE, VA
(800) 444-4799

SALEM, NH
(800) 444-0047

WINTER SPRINGS, FL
(800) 327-1917

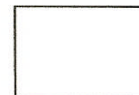
ATLANTA, GA
(800) 444-7927

Contact HRO for promotion details. Toll-free including Hawaii, Alaska and Canada. All HRO 800-lines can assist you. If the first line you call is busy, you may call another. Prices, specifications and descriptions subject to change without notice.



The Carrier

Newsletter of the Mt. Diablo Amateur Radio Club
P.O. Box 23222
Pleasant Hill, CA 94523
www.mdarc.org



FIRST CLASS

<https://www.facebook.com/mdarc.org>

W6CX Nets

M-F 5:42 am Morning Muster 147.060+ 224.780- 441.325+

M-F 6:10am Commuter Net 147.060+ 224.780- 441.325+

Monday 8:00 pm SATERN Net 147.060+

Tuesday 7:30 pm Fat City 10 meter USB/CW Net 28.420 MHz

Tuesday 8:00pm Digital Practice Net 147.060+ 224.78- 441.325+

Wednesday 7:00 pm SKYWARN Net 147.060+

Thursday 7:30 pm MDARC Club Net 147.060+

Thursday 8:00 pm Digital Amateur Television Net 147.060+

Club Voice Repeaters

147.060 MHz + / PL 100Hz

224.780 MHz - / PL 77Hz 441.325 MHz + / PL 100Hz

EchoLink: W6CX-R /133896, IRLP: 3057

DMR Repeater 144.925 offset plus 2.5 MHz color code 1

D-STAR 145.000 offset plus 2.5 MHz

<https://w6cx.dstargateway.org/>

DATV Internet Stream: <https://batc.org.uk/live/nj6e>

YouTube Channel: Media MDARC

Contra Costa County Emergency Communications Nets Every Thursday

6:30 pm HF Countywide 3.893 MHz LSB

6:45 pm West County 145.110-- (82.5 PL)

7:00 pm Central County 145.680 Simplex

7:00 pm East County 146.535 Simplex

7:00 pm South County 147.480 Simplex

7:20 pm Countywide 145.490-- (107.2 PL)

or 147.735-- (107.2 PL)

or 145.410-- (107.2 PL)

Concord Auxiliary Radio Emergency Service (CARES)

Wednesday 8:00pm 147.405 Simplex

Digital Amateur Television Repeater

Digital ATV Output: 1244.500

Digital ATV Inputs: 1292.500, 1273.0, 917.0, 430.0

Analog ATV Input: 1270.000 FM (PL 192.8)

April and May 2023 Club Calendar

Friday April 21, 2023

7:00pm MDARC General Meeting - Our Saviors Lutheran Church, 1035 Carol Lane, Lafayette
Also available on zoom.us via link sent from groups.io or watch on DATV repeater

Monday May 1, 2023

7:00pm MDARC Board of Directors Meeting - VIA VIDEO CONFERENCE

Saturday May 6, 2023

8:00am MDARC Technical Committee Meeting - VIA VIDEO CONFERENCE

Friday May 19, 2023

7:00pm MDARC General Meeting - Our Saviors Lutheran Church, 1035 Carol Lane, Lafayette